Concept Pro

AIR45/50/HGE Range

Weatherproof Colour/Mono IR Camera

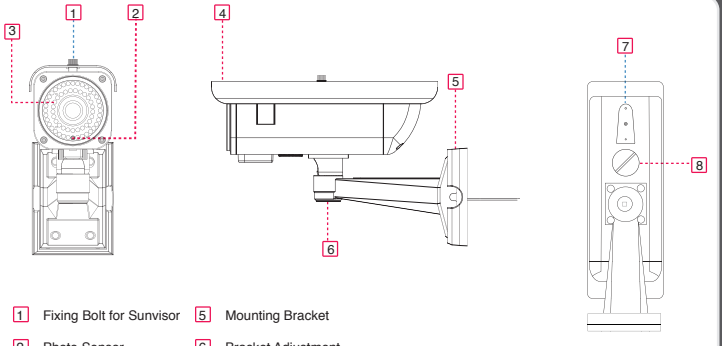
USER MANUAL

Powered by

TECHNOLOGY

ADVANCED INFRARED

The Concept Pro AIR45 / 50 range are weatherproof IR cameras, suitable for monitoring areas in hostile conditions and in low light.



1	Fixing Bolt for Sunvisor	5	Mounting Bracket
2	Photo Sensor	6	Bracket Adjustment
3	IR LED	7	External Lens Adjustment
4	Sunvisor	8	Service Video Output

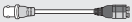
PACKING CONTENTS

WALL SCREW
X4

FIXING PLATE
X1

FIXING PLATE LOCATING SCREW
X2

SERVICE VIDEO OUT CONNECTOR
(AIR4526 MODEL ONLY)
X1



EASY FIT BNC CONNECTOR
X1

BRACKET/FIXING PLATE SCREW
X4

LENS ADJUSTMENT COVER SCREW
X1

ALLEN KEY
X1

EASY FIT POWER CONNECTOR
X1

LENS ADJUSTMENT TOOL
X1

USER MANUAL
X1

MOUNTING DRAWING PAPER
X1

OSD CABLE
(AIR4526HG / 4527HG / 5026HG MODELS ONLY)
X1

CAUTION

1. This installation should be made by a qualified service person and should abide to all local codes.
2. In order to prevent electronic shock and/or destroy waterproof seals, do not loosen any screws on the camera body.
3. Adjust the sunshield cover to avoid exposure of direct sunlight on the lens.
4. Do not touch the front glass directly. If necessary, use a soft cloth moistened with alcohol to wipe off dust or debris.
5. Avoid installation on a surface subjected to frequent vibration or shocks.
6. Do not operate the camera beyond its temperature range or power source ratings.
7. Should any damage or suspected damage occur, shutdown the power source, unplug and contact your service provider.
8. Do not install the camera under unstable lighting conditions. Severe lighting change or flicker can cause the camera to work improperly.
9. Never use the camera close to a gas or oil leak.
10. Do not disassemble the camera.
11. Do not drop the camera or subject the unit to physical shocks. Never keep the camera face to strong light directly, this can damage the CCD.
12. Ensure all removable covers are replaced to protect the inner components.
13. Do not install near devices which emit a strong electro-magnetic field.
14. Use a dry or damp cloth only for cleaning.

PLEASE FOLLOW THE ABOVE CAUTIONS – FAILURE TO DO SO MAY INVALIDATE THE WARRANTY OR CAUSE SERIOUS INJURY.

Remark: Changes or modifications not expressly approved by the manufacturer can cause the camera to be damaged and become inoperable. This may invalidate the user warranty.

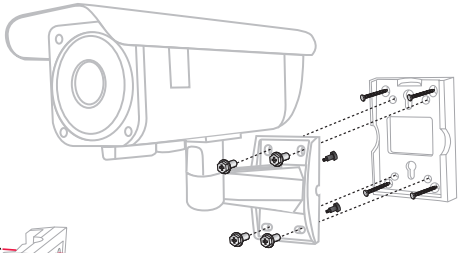
Important: Ensure all cautionary procedures are observed during installation.

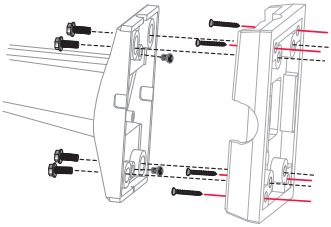
It is recommended the camera is tested during the most demanding environmental conditions such as low light or bright sunlight to ensure continuity of effective CCTV monitoring. You may find the use of an ND filter helpful.

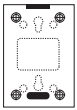
Remove the camera unit carefully from the box, reserving the accessory contents in a safe place.

FIXING TO A WALL

- Use the supplied drill mounting template to mark the spacing for drilling.
- Following drilling, securely attach the bracket and camera to the wall.



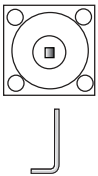


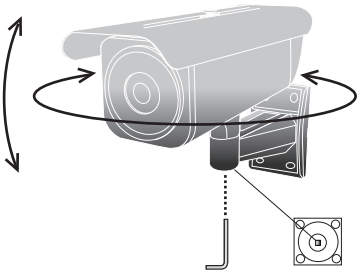


MOUNTING TEMPLATE

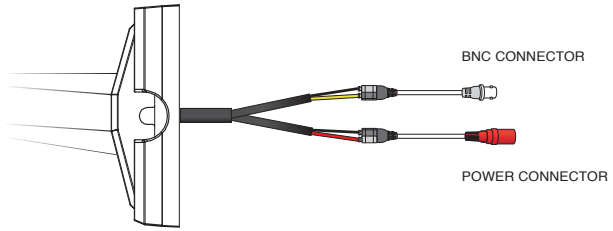
POSITIONING

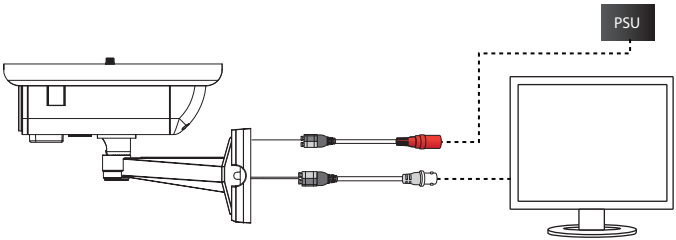
Point the Camera towards the intended area to be monitored.





CONNECTION





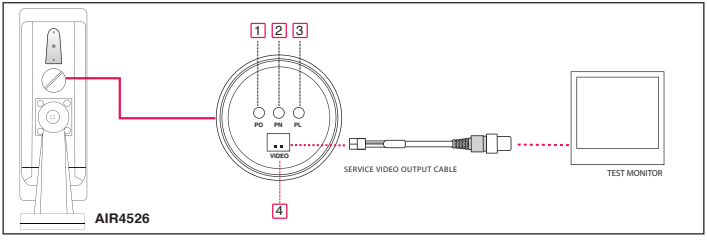
- Connect the video out port to your video cable running to the monitoring recorder.
- Check the power supply is of the correct level and connect your power supply into the power port on the Camera.
- View the picture on a monitoring device to check the power and video connection is working properly.

Troubleshooting

- Ensure all power and cable connections are correct with the Camera, DVR and Test monitor or Telemetry devices if used.
- Power Voltage Check - Remove the OSD cover to see if the green correct power LED is lit. If there red LED is lit the power voltage is too high. If the yellow LED is lit the power voltage is not high enough. If there are no LEDs lit there is no power getting to the camera
- If all power and cable connections are correct and the camera picture can not be produced or configured then contact your supplier for technical support.

SERVICE VIDEO OUTPUT (AIR4026 MODEL ONLY)

The Service Video Out panel contains a power indicator and test monitor connection for ease of adjusting the camera settings during installation.

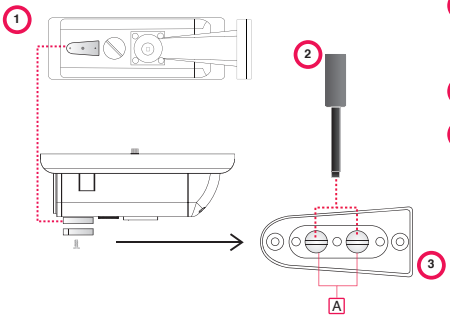


The power indicator LEDs display the power supply being fed into the camera and whether it is too high, low or correct.

1. "PO": Red LED - Voltage is too high
2. "PN": Green LED - Voltage is correct
3. "PL": Yellow LED - Voltage is too low
4. Extra video out for testing monitor - Attach your Video test monitor with the service video cable enclosed in your camera box. The camera footage will appear on your test monitor and zoom/focus adjustments can be carried out as the installation requires.

SEE OVERLEAF FOR AIR-HGE ON SCREEN DISPLAY

EXTERNAL LENS ADJUSTMENT



1. Open the lens adjuster cover and adjust focus and zoom. Loose the screw on the lens adjuster cover.
2. Lens Adjustment Tool
3. Focus and Zoom Adjustments
   A **Zoom** Wide / Narrow
   Focus Near / Far

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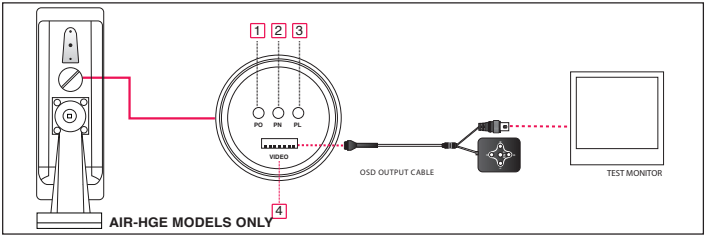

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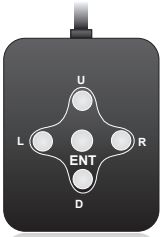
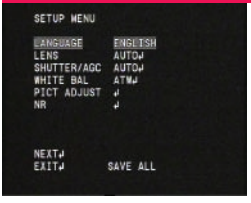


OSD Controller

1) Press “U” to navigate upwards
2) Press “D” to navigate downwards
3) Press “L” to navigate left
4) Press “R” to navigate right
5) Press “ENT” to open menu/sub-menu

(AIR4526HGE / 4527HGE / 5026HGE MODELS ONLY)

LANGUAGE



ENGLISH / SPANISH / PORTUGUESE /
FRENCH / GERMAN / CHINESE /
JAPANESE / RUSSIAN

LENS

MANUAL		
AUTO	TYPE	DC
	MODE	AUTO, OPEN, CLOSE
	SPEED	0~255

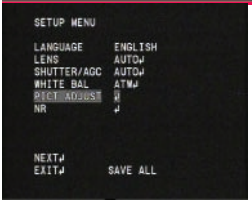
SHUTTER / AGC

AUTO	HIGH LUMINANCE	
	MODE	SHUT+AUTO IRIS, AUTO IRIS
	BRIGHTNESS	0~255
	LOW LUMINANCE	
	MODE	AGC, OFF
	BRIGHTNESS	0.25~1.00
MANUAL	MODE	SHUT+AGC
	SHUTTER	1/50~1/10000
	AGC	6.00~44.80

WHITE BALANCE

ATW	SPEED	0~255
	DELAY CNT	0~255
	ATW FRAME	X0.50~X2.00
	ENVIRONMENT	INDOOR/OUTDOOR
PUSH LOCK		
MANUAL	LEVEL	0~255
ANTI CR		
USER 1	B-GAIN	0~255
	R-GAIN	0~255
USER 2	B-GAIN	0~255
	R-GAIN	0~255
PUSH		

PICT ADJUST



MIRROR	OFF/ON
BRIGHTNESS	0~255
CONTRACT	0~255
SHARPNESS	0~255
HUE	0~255
GRAIN	0~255

NR

NR MODE	Y/C, C, Y, OFF
Y LEVEL	0~15
C LEVEL	0~15

BACKLIGHT

OFF/BLC/HLC

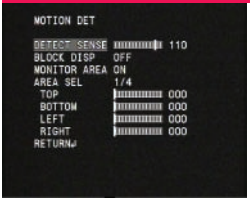
ATR

OFF		
ON	LUMINANCE	LOW, MID, HIGH
	CONTRAST	LOW, MIDLOW, MID, MIDHIGH, HIGH

PRIVACY

OFF		
ON	AREA SEL	1~4
	TOP	0~288
	BOTTOM	0~288
	LEFT	0~468
	RIGHT	0~468
	COLOUR	1~8
	TRANSP	0.00~1.00
	MOSIAC	OFF/ON

MOTION DETECTION



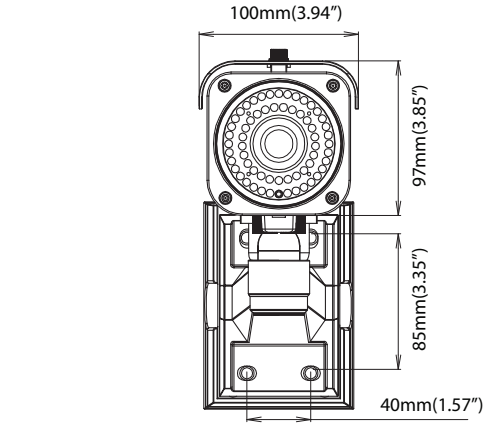
OFF		
ON	DETECT SENSE	0~127
	BLOCK DISPLAY	OFF/ON/ENABLE/ SELECT AREA
	MONITOR AREA	OFF/ON
	AREA SELECT	1~4
	TOP	0~288
	BOTTOM	0~288
	LEFT	0~288
	RIGHT	0~288

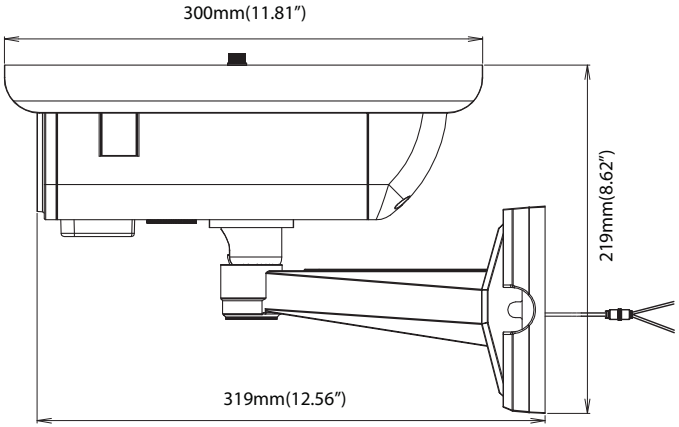
CAMERA ID

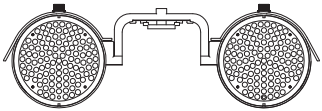
OFF	
ON	OPENS VIRTUAL KEYBOARD

SAVE ALL

IMPORTANT - PLEASE NOTE:
When all configurations have been made select SAVE ALL at the bottom of the OSD before exiting


100mm(3.94")
97mm(3.85")
85mm(3.35")
40mm(1.57")

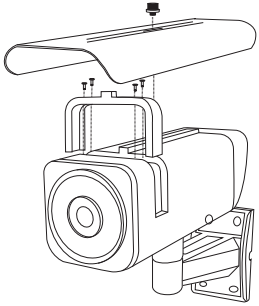

300mm(11.81")
219mm(8.62")
319mm(12.56")

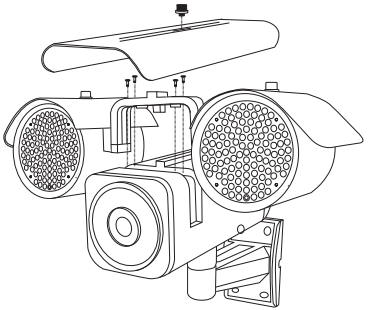


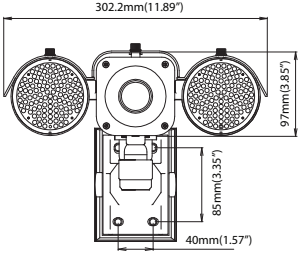
AIR-IR
IR LAMPS

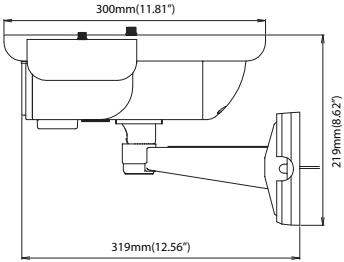
Extend the IR range up to 80m with AIR-IR.

* Lens should be used at 6mm or above to achieve even illumination









ITEM	AIR4527HGE	AIR5026HGE
Type	Colour/Monochrome (Removable IR Cut Filter)	
Signal System	PAL	
Pick Up Device	1/3" Sony Colour High Resolution CCD	
Picture Elements	976H□582V	
Resolution	650TVL	
Min Illumination	0Lux (60Pieces IR LED ON)	
Vertical Frequency	50Hz	
Horizontal Frequency	15.625KHz	
Clock Frequency	PAL:36.00MHz	
Scanning System	2:1 Interlace	
S/N Ratio	≥52dB	
Electronic Shutter	1/50-1/100,000s	
Lens	9-22mm Varifocal Auto iris IR Lens	6-50mm Varifocal Auto Iris IR Lens
White Balance	Selectable	
Back Light	Selectable	
Auto Gain Control	Selectable	
GAMMA	0.45	
Video Out-put	1V p-p,75Ω	
Power Supply	DC12V ±10%/AC24V±10%	
Current Consumption	DC:730~750mA/AC:510~530mA (Max)	
IR Effect Distance	45~50m (147.5~163.9ft) (Outdoor)	50~55m (163.9~180.3ft) (Outdoor)
Dimension	319x219x100mm	
Weight	2.5Kg	
Storage Temperature	-30°+60° (-22°+140°)	
Operating Temperature	-30°+40° (-22°+104°)	

Design and specification are subject to change without notice.

ITEM	AIR4526	AIR4526HGE
Type	Colour/Monochrome (Removable IR Cut Filter)	
Signal System	PAL	
Pick Up Device	1/3" Sony Colour High Resolution CCD	
Picture Elements	795H x 596V	976H x 582V
Resolution	520TVL	650TVL
Min Illumination	0Lux (60Pieces IR LED ON)	
Vertical Frequency	50Hz	
Horizontal Frequency	15.625KHz	
Clock Frequency	PAL:28.375MHz	PAL:36.00MHz
Scanning System	2:1 Interlace	
S/N Ratio	≥50dB	≥52dB
Electronic Shutter	1/50-1/100,000s	
Lens	3.5-8mm IR Varifocal Lens	
White Balance	AUTO Tracking	Selectable
Back Light	ON	Selectable
Auto Gain Control	ON	Selectable
GAMMA	0.45	
Video Out-put	1V p-p,75Ω	
Power Supply	DC12V ±10%/AC24V±10%	
Current Consumption	DC:600mA/AC480mA (Max)	DC:620mA/AC500mA (Max)
IR Effect Distance	30~35m (98.4~114.8ft) (Outdoor)	
Dimension	319x219x100mm	
Weight	2.5Kg	
Storage Temperature	-30°+60° (-22°+140°)	
Operating Temperature	-30°+40° (-22°+104°)	

Design and specification are subject to change without notice.

AIR15 Range

18 IR LEDs
420 TVL / 520 TVL Options
3.6mm / 6mm Fixed Lens Options
182 x 70 x 81mm (WxHxD)

AIR30 Range

42 IR LEDs
Varifocal Lens Options
Service Video Output Option
On Screen Display Option
External Lens / Zoom Adjustments
202 x 85 x 118mm (WxHxD)

AIR-IR

It is possible to extend the IR range of the AIR 45/50 range with an easy to attach bolt-on twin IR lamp. The AIR-IR twin lamp allows the camera unit to view up to 80m.

Concept Pro